

05/01/80
12.3.8 v.3

PAGE 1 OF 4

Monsanto MATERIAL SAFETY DATA ○ ○ ○ ○

NOTE:

NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THE INFORMATION AND RECOMMENDATIONS HEREIN. SEE PAGE 4 FOR CONDITIONS UNDER WHICH DATA ARE FURNISHED.

MONSANTO PRODUCT NAME

VANILLIN BLACK LIQUOR SOLIDS (VBLS)

MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MO. 63166
EMERGENCY PHONE NO.
(CALL COLLECT)

314-694-1000

PRODUCT IDENTIFICATION

Chemical Family: Calcium ligno-sulfonate slurry

DOT Proper Shipping Name: none
DOT Hazard Class: none
DOT Label: none

COPY

2d

WARNING STATEMENTS

None required.
Handle in accordance with good industrial hygiene and safety practice.

PRECAUTIONARY MEASURES

No special precautions needed.

EMERGENCY AND FIRST AID PROCEDURES

IN CASE OF CONTACT WITH SKIN, remove contaminated clothing and wash exposed surfaces with large volumes of water. If irritation persists, consult a physician.

IN CASE OF CONTACT WITH EYES, flush immediately with large volumes of water. If irritation persists, consult a physician.

USEPA SF



1261026

AGC2E000183

Monsanto MATERIAL SAFETY DATA

Monsanto MATERIAL SAFETY DATA

PAGE 2 OF 4

OCCUPATIONAL CONTROL PROCEDURES

Protective Equipment -

Eyes - Chemical goggles

Skin - Rubber gloves, and long-sleeved clothing

Permissible Concentrations -

VBLS

TLV/TWA: none established.

2d

FIRE PROTECTION INFORMATION

Ignition Temperature *

Flash Point *

Flammable Limits *

*Not applicable, aqueous solution

Extinguishing Media - *

Although this material does not meet the parameters for flammability, it will burn in the presence of a strong ignition source after the water is removed.

PHYSIOLOGICAL EFFECTS SUMMARY:

Oral LD₅₀ (rats) >5000 mg/kg

Skin Irritation (rabbits) non-irritating

"practically non-toxic"

FHSA 0.0

Dermal LD₅₀ (rabbits) >7940 mg/kg

Eye Irritation (rabbits) mild irritant

"practically non-toxic"

FHSA 20.8

PHYSICAL DATA

Appearance - brown slurry, similar to cement slurry

Odor - may have slight organic solvent odor.

pH - 12.5, buffered

Density - 92 lbs./ft.³, average

REACTIVITY DATA

Materials to Avoid - None

Hazardous Decomposition Products - No uniquely hazardous decomposition product are expected. If the product is burned, as with any organic material, CO, CO₂, smoke and soot can be produced.

Hazardous Polymerization - Does not occur.

SPILL, LEAK & DISPOSAL INFORMATION

Waste Disposal - Dispose of by landfilling in a Class I landfill.

Spill or Leakage Procedures - Collect and landfill in Class I landfill.

Flush area with water.

ADDITIONAL COMMENTS

DATE May, 1980

REVISED

SUPERCEDES

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT: H. E. Klaus
Coordinator
Product Acceptability and
Environmental Affairs
Specialty Chemicals Division
Monsanto Industrial Chemicals Division

AGC2E000185

○ ○ ○ ○ Monsanto MATERIAL SAFETY DATA

PAGE 4 OF 4

NOTE:

○ ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH IN THIS SHEET ARE BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, MONSANTO COMPANY MAKES NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND RECOMMENDATIONS. MONSANTO COMPANY SHALL IN NO EVENT BE RESPONSIBLE FOR ANY DAMAGES OF WHATSOEVER NATURE DIRECTLY OR INDIRECTLY RESULTING FROM THE PUBLICATION OR USE OF OR RELIANCE UPON SUCH INFORMATION AND RECOMMENDATIONS. 29

○ NO WARRANTY, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS OR OF ANY OTHER NATURE WITH RESPECT TO THE PRODUCT OR TO THE INFORMATION AND RECOMMENDATIONS HEREIN IS MADE HEREUNDER.

○ This form has been approved by the Occupational Safety and Health Administration as "equivalent to" OSHA Form 20.

MATERIAL SAFETY DATA Monsanto

AGC2E000186